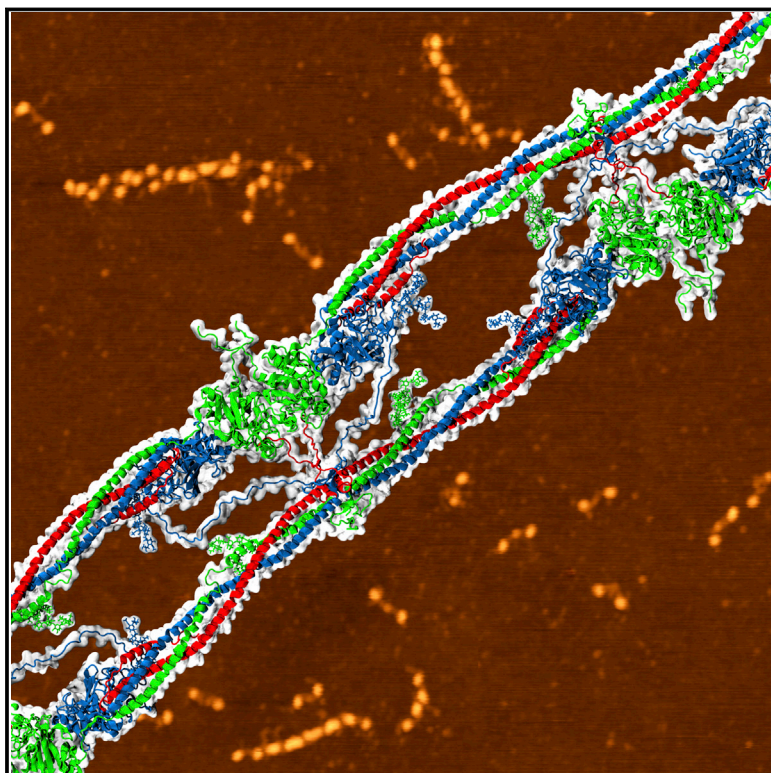


Structure

Structural Basis of Interfacial Flexibility in Fibrin Oligomers

Graphical Abstract



Authors

Artem Zhmurov, Anna D. Protopopova, Rustem I. Litvinov, Pavel Zhukov, Alexander R. Mukhitov, John W. Weisel, Valeri Barsegov

Correspondence

weisel@mail.med.upenn.edu (J.W.W.),
valeri_barsegov@uml.edu (V.B.)

In Brief

Using the crystal structures of fibrin(ogen) and its fragments and advanced molecular modeling techniques, Zhmurov et al. recreate the full-atomic structures of single- and double-stranded fibrin oligomers and identify a hinge-like inter-monomer juncture region. These structures are validated by quantitative comparisons with high-resolution atomic force microscopy images.

Highlights

- Atomic models for single- and double-stranded fibrin oligomer are reconstructed
- Structures are validated by quantitative comparison with high-resolution AFM images
- Structural basis for interfacial flexibility of fibrin oligomers is provided
- Atomic structure of the D:E:D interface beyond the knob-hole bonds is characterized

